Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A control apparatus for use with an on-vehicle generator provided with a stator winding and a field winding and driven to rotate by an on-vehicle engine, the control apparatus comprising:

~~a~~ single power ~~supply~~supplying means, which is directly connected to an output terminal of the generator, providing current to the field winding to excite the field winding;

~~a storage element~~ chargeable storage means ~~and~~ directly connected ~~directly~~ to the output terminal of the generator;

a switching circuit having a switching element configured to be turned on and off and to selectably and electrically connect or disconnect a current path between the field winding and the output terminal; and

a regeneration circuit configured to provide, through the terminal, the storage ~~element~~ means with current flowing through the field winding depending on magnetic energy preserved in the field winding when the switching element is turned off.

2. (Currently Amended) The control apparatus according to claim 1, wherein the switching element is placed in the switching circuit so that the current flowing through the field winding when the current is supplied to the storage ~~element~~ means is the same in a current flowing direction as the current flowing through the field winding when the power ~~supply~~ supplying means provides the field winding with current.

3. (Currently Amended) The control apparatus according to claim 2, wherein the field winding has two terminals, the power ~~supply~~ supplying means has positive and negative terminals, and the storage ~~element~~ means has positive and negative pole terminals;